

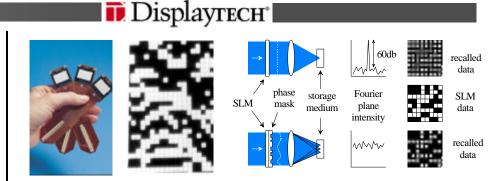
Next-generation write head for commercial holographic data storage

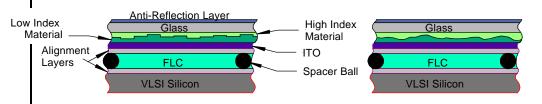
Proposal#: E3.03-8029

ID & significance of innovation:

Development of spatial light modulator (SLM) with integrated phase mask enables low-cost holographic data storage drives offering 100 GB 1 TB capacity & 100 Gb/s read/write rates.

Innovative micro-optics fabrication ensures compatibility with proven SLM manufacturing processes.





Phase I technical objectives

- determine SLM design constraints
- identify phase-mask manufacturing process
- fab & test model write head

NASA applications data storage for:

- satellite imagery
- earth-sciences databases

non-NASA applications storage for:

- professional video recording
- medical images
- enterprise archive and backup